

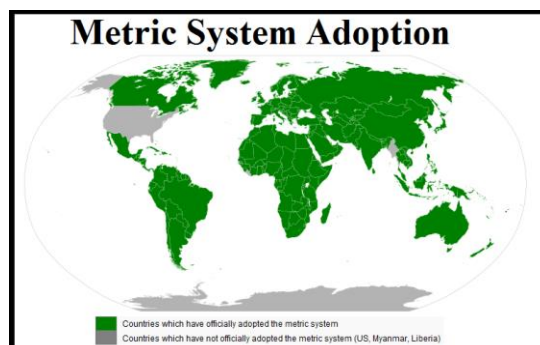
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## US CUSTOMARY UNITS AND METRIC SYSTEM EQUIVALENCE

Most countries have officially adopted the metric system. The US is almost the only one that uses the customary units.

### LENGTH

| Unit        | Divisions          | MS Equivalent |
|-------------|--------------------|---------------|
| 1 inch (in) |                    | 25.4 mm       |
| 1 foot (ft) | 12 in              | 30.48 cm      |
| 1 yard (yd) | 3 ft               | 91.44 cm      |
| 1 mile (mi) | 5280 ft or 1760 yd | 1.609344 km   |

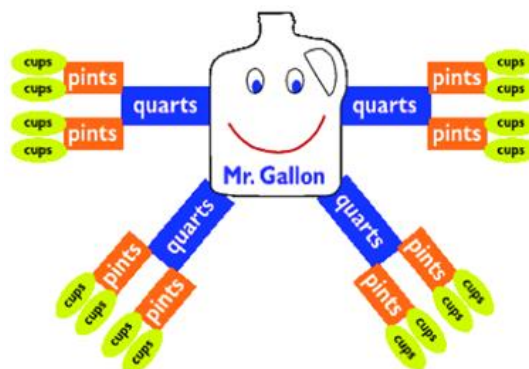


### CAPACITY

| Unit                  | Divisions | MS Equivalent |
|-----------------------|-----------|---------------|
| 1 fluid ounce (fl oz) |           | 29.57 ml      |
| 1 cup (cp)            | 8 fl oz   | 236.6 ml      |
| 1 pint (pt)           | 2 cp      | 473.2 ml      |
| 1 quart (qt)          | 2 pt      | 0.95 l        |
| 1 gallon (gal)        | 4 qt      | 3.79 l        |

### WEIGHT

| Unit         | Divisions | MS equivalent |
|--------------|-----------|---------------|
| 1 ounce (oz) |           | 28.35 g       |
| 1 pound (lb) | 16 oz     | 453.6 g       |
| 1 ton (ton)  | 2000 lb   | 907.2 kg      |



### WEBSITES

It is very useful to watch these videos about the US customary system.

Try to watch them and give me your opinion.

**Units of length:** <http://goo.gl/Fi9TFC>

<https://www.youtube.com/watch?v=vzXHxV1qhRg>

**Units of weight:** <http://goo.gl/skpT7A>

<https://www.youtube.com/watch?v=1YGhnFMYxyw>

**Units of volume:** <http://goo.gl/zj4dB6>

<https://www.youtube.com/watch?v=08vD9b00Vbg>

### POWERS OF TEN

Choose an object from the website: 'The Scale of the Universe 2' whose link is:

<http://htwins.net/scale2/> and write its size as a power of ten, draw it, and write the description you can get from the website.

**COMPLETE THE TABLE BY DOING THE CONVERSION TO THE CORRESPONDING UNIT**

You have to write the operations as the example is below. Notice that sometimes you have to multiply and other times you have to divide:

| Example   | US customary system | Metric system                 |
|---|---------------------|-------------------------------|
| My TV is 20 inches                                  | 20 in               | $20 \times 2.54 =$<br>50.8 cm |
| My desk is 1.20 m long                              | ft                  | 1.20 m                        |
| The football pitch is 60 yards wide                 | 60 yd               | m                             |
| The distance between Cáceres and Madrid is 290 km   | mi                  | 290 km                        |
| I have to take 3.5 fluid ounces of penicillin daily | 3.5 fl oz           | ml                            |
| The capacity of my jug is 3 cups.                   | 3 cp                | ml                            |
| I drank 750 ml of coke last weekend                 | pt                  | 750 ml                        |
| I usually buy 2 quarts of milk a week.              | 2 qt                | l                             |
| 60 litres of petrol is €80                          | gal                 | 60 l                          |
| My favourite chocolate weighs 8 ounces              | 8 oz                | gr                            |
| I weigh 54 kg                                       | lb                  | 54 kg                         |
| An Indian elephant is about 3.5 tones heavy         | 3.5 ton             | kg                            |